

narrow interior and including a channel comprised between two inner surfaces of said chamber, positioning said cartridge in a cartridge holder, said positioning being effected before or after introduction of said liquid into said chamber, and oscillating said cartridge holder and thereby said cartridge about an axis of rotation which is substantially perpendicular to a vertical plane, thereby moving said cartridge back and forth between a first angular position and a second angular position which lie on opposite sides of an intermediate angular position at which said active surface of said chip shaped carrier is substantially at a lowest part of its motion path caused by said oscillating of said cartridge, in order to cause relative motion of the liquid contained in said channel with respect to said active surface of said chip shaped carrier. According to the first aspect of the invention, the above aim is also achieved with a system for processing a nucleic acid sample contained in a liquid, said system comprising (a) a cartridge which comprises a chip shaped carrier having an active surface which carries an array of oligonucleotides, said active surface facing an inner surface of a part of said cartridge and a chamber having a narrow interior and including a channel, a portion of said channel lying between said active surface and said inner surface, (b) a cartridge holder which is adapted to hold said cartridge, and (c) means for oscillating said cartridge holder and thereby said cartridge about an axis of rotation which is substantially perpendicular to a vertical plane and thereby moving said cartridge back and forth between a first angular position and a second angular position which lie on opposite sides of an intermediate angular position at which said active surface of said chip shaped carrier is substantially at the lowest part of its motion path caused by said oscillating of the cartridge in order to cause relative motion of the liquid contained in said channel with respect to said active surface of said chip shaped carrier. According to the first aspect of the invention, the above aim is also achieved with a cartridge for processing a nucleic acid sample contained in a liquid, said cartridge comprising a chip shaped carrier having an active surface which carries an array of oligonucleotides, said active surface facing an inner surface of a part of said cartridge, and a chamber having a narrow interior and including a channel, a portion of said channel lying between said active surface and said inner surface. Features of preferred embodiments are described herein.